

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091019\
 Data File : VU034462.D
 Acq On : 10 Sep 2019 19:26
 Operator : JC/SP
 Sample : K4601-35
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T12-F1-(2.7)

Quant Time: Sep 11 05:58:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 05:10:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	225973	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	367685	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	393068	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	213795	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	215208	62.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	125.88%	
35) Dibromofluoromethane	4.86	113	185254	54.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.30%	
50) Toluene-d8	7.55	98	656442	51.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.14%	
62) 4-Bromofluorobenzene	10.29	95	223273	44.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.98%	

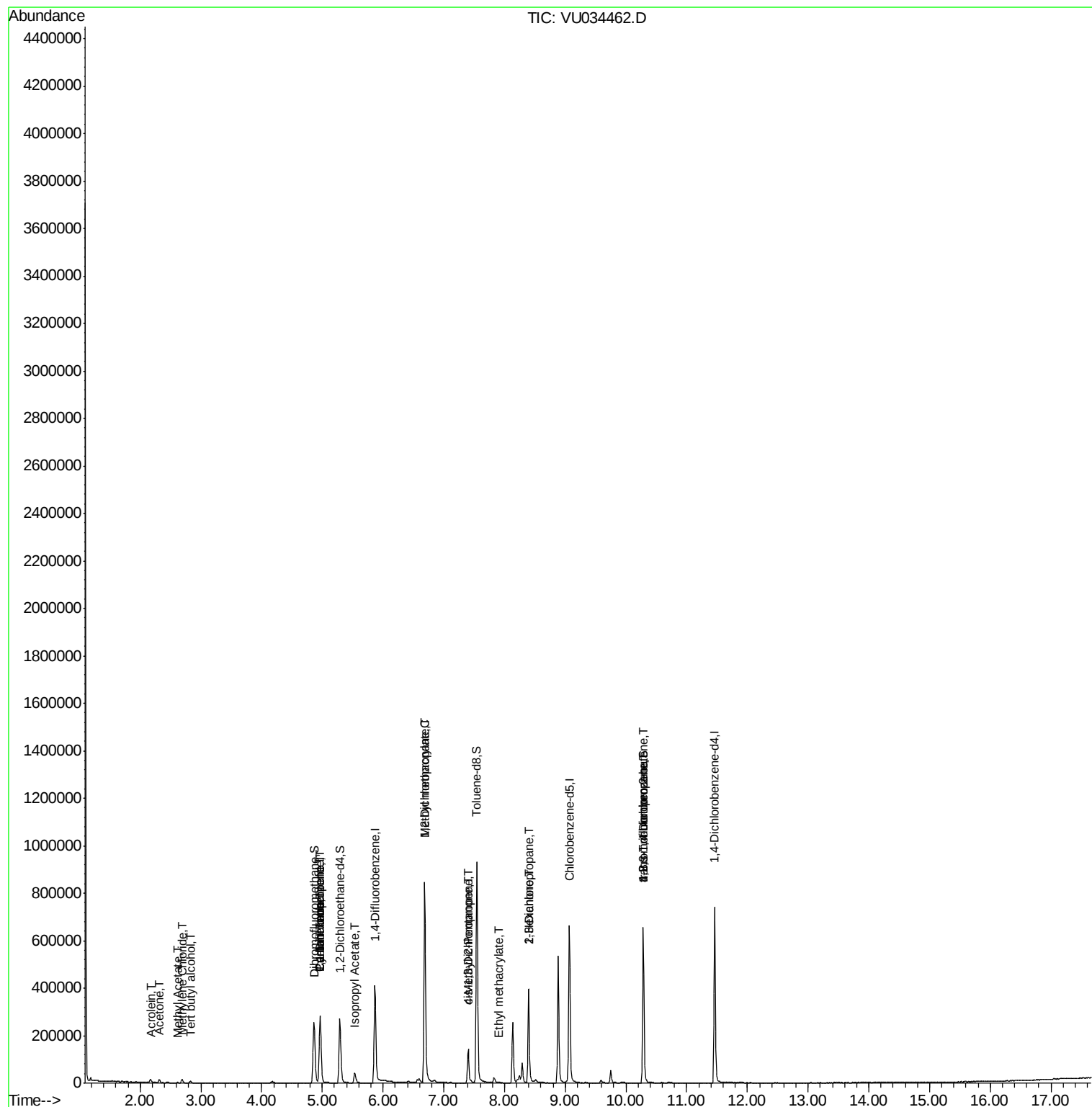
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	190	Below Cal		90
6) Chloroethane	1.72	64	209	Below Cal	#	43
11) Tert butyl alcohol	2.83	59	4953	6.857	ug/l #	73
13) Acrolein	2.20	56	144	0.237	ug/l #	75
16) Acetone	2.32	43	14802	8.366	ug/l	95
18) Methyl Acetate	2.61	43	3214	0.747	ug/l	99
20) Methylene Chloride	2.69	84	7381	2.165	ug/l	94
31) Cyclohexane	4.96	56	3979	0.994	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	15669	3.929	ug/l #	48
38) Carbon Tetrachloride	4.96	117	20574	4.832	ug/l #	17
43) Isopropyl Acetate	5.53	43	51243	6.967	ug/l	99
45) 1,2-Dichloropropane	6.68	63	1040	0.276	ug/l #	44
48) Methyl methacrylate	6.68	41	77138	22.082	ug/l #	37
51) 4-Methyl-2-Pentanone	7.40	43	55297	10.862	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	26278	4.752	ug/l #	66
56) Ethyl methacrylate	7.90	69	171	3.105	ug/l #	28
57) 1,3-Dichloropropane	8.40	76	4369	0.732	ug/l #	43
59) 2-Hexanone	8.40	43	52865	13.900	ug/l #	53
76) 1,2,3-Trichloropropane	10.29	75	106648	22.853	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	106648	76.852	ug/l #	100

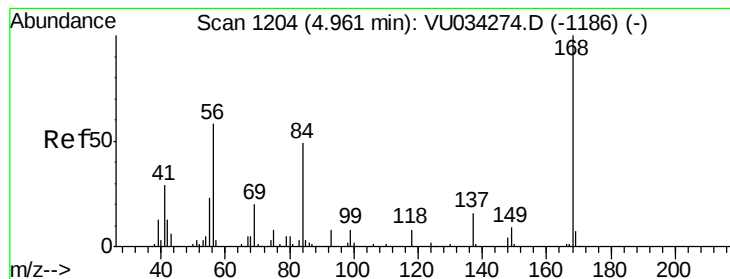
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Sep 06 05:10:13 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.00 min

Lab File: VU034462.D

Acq: 10 Sep 2019 19:26

Instrument :

MSVOA_U

ClientSampleId :

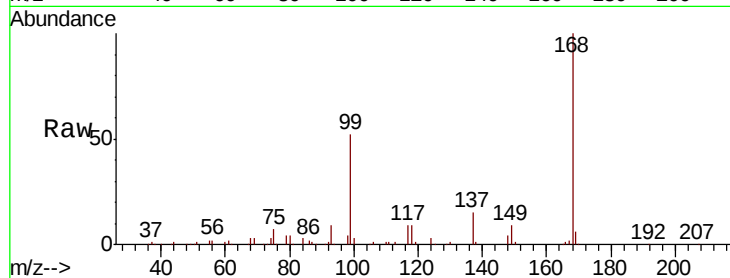
T12-F1-(2.7)

Tgt Ion:168 Resp: 225973

Ion Ratio Lower Upper

168 100

99 51.7 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034462.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034462.D (-1186) (-)

4.96

100000

80000

60000

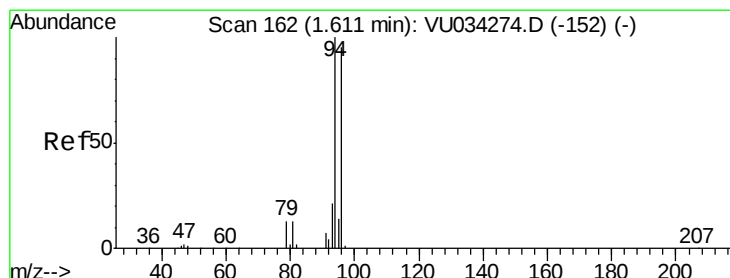
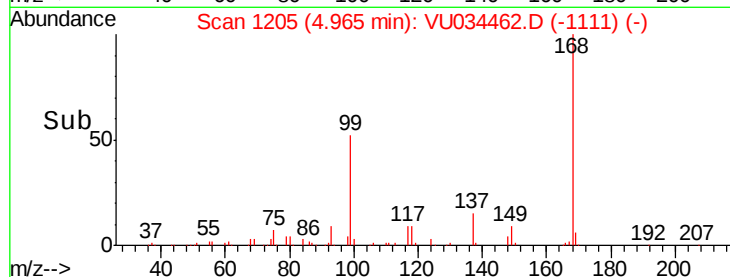
40000

20000

0

4.85 4.90 4.95 5.00 5.05

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.02 min

Lab File: VU034462.D

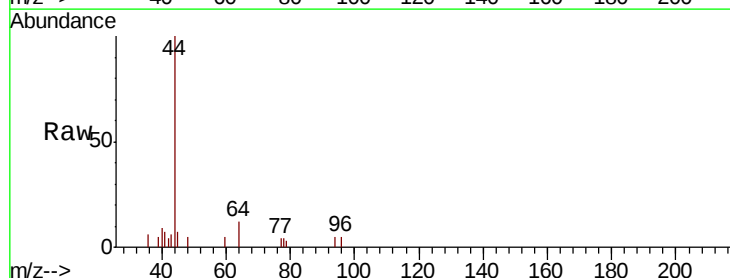
Acq: 10 Sep 2019 19:26

Tgt Ion: 94 Resp: 190

Ion Ratio Lower Upper

94 100

96 85.1 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VU034462.D (-68) (-)

Ion 95.90 (95.60 to 96.60): VU034462.D (-68) (-)

1.63

250

200

150

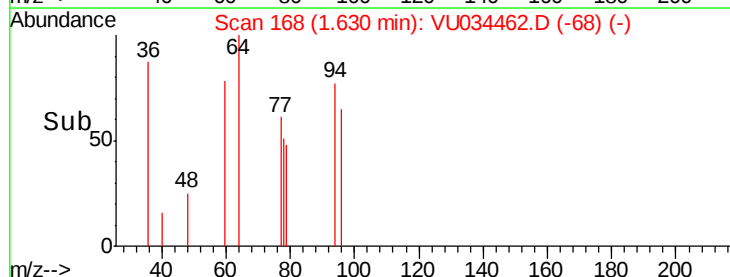
100

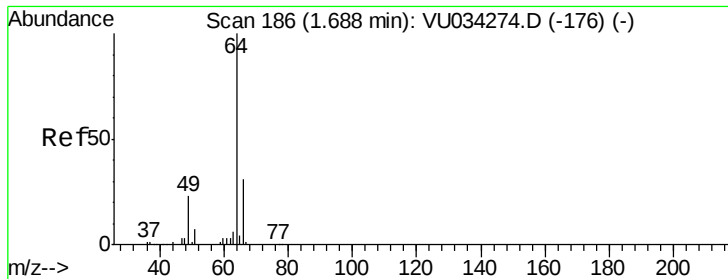
50

0

1.60 1.61 1.62 1.63 1.64

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 195

Delta R.T. 0.03 min

Lab File: VU034462.D

Acq: 10 Sep 2019 19:26

Instrument :

MSVOA_U

ClientSampleId :

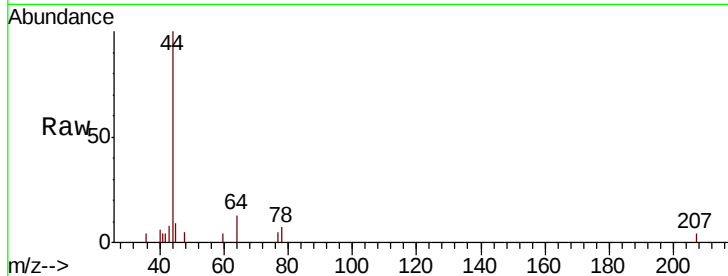
T12-F1-(2.7)

Tgt Ion: 64 Resp: 209

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

1.72

400

300

200

100

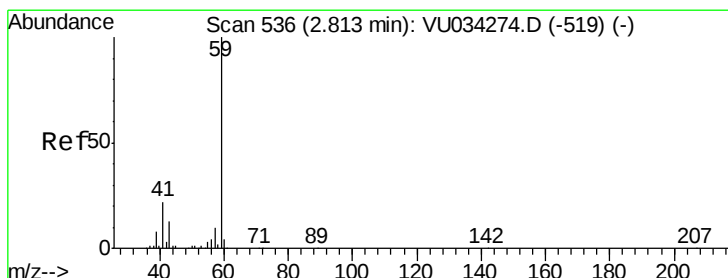
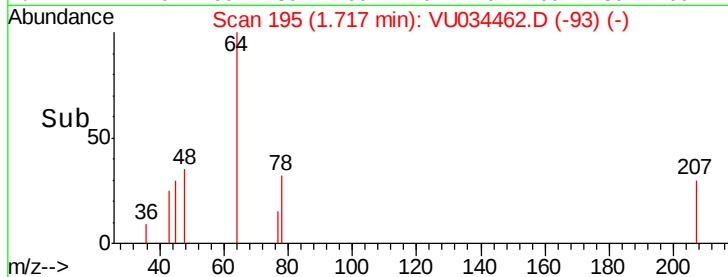
0

1.70

1.72

1.74

Time-->



#11

Tert butyl alcohol

Concen: 6.857 ug/l

RT: 2.83 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU034462.D

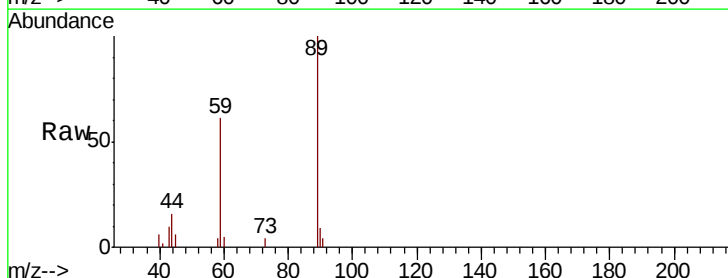
Acq: 10 Sep 2019 19:26

Tgt Ion: 59 Resp: 4953

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

2.83

2500

2000

1500

1000

500

0

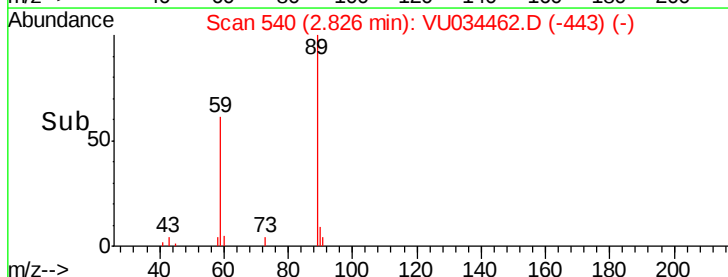
2.75

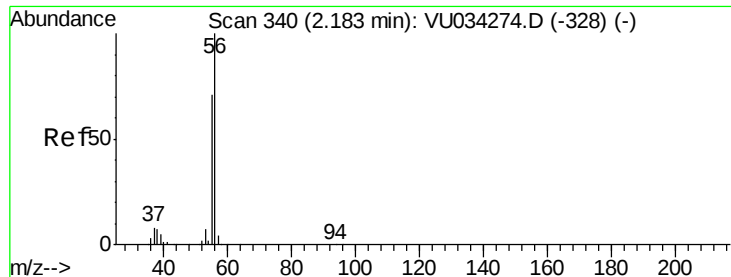
2.80

2.85

2.90

Time-->





#13

Acrolein

Concen: 0.237 ug/l

RT: 2.20 min Scan# 344

Delta R.T. 0.01 min

Lab File: VU034462.D

Acq: 10 Sep 2019 19:26

Instrument :

MSVOA_U

ClientSampleId :

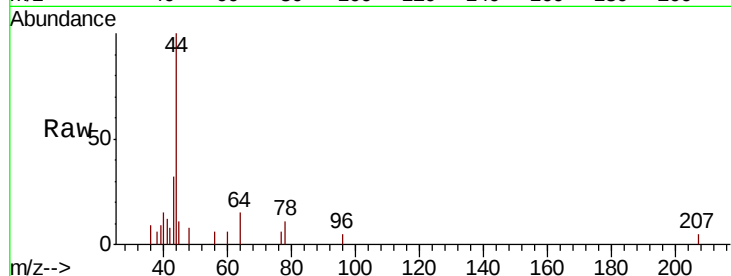
T12-F1-(2.7)

Tgt Ion: 56 Resp: 144

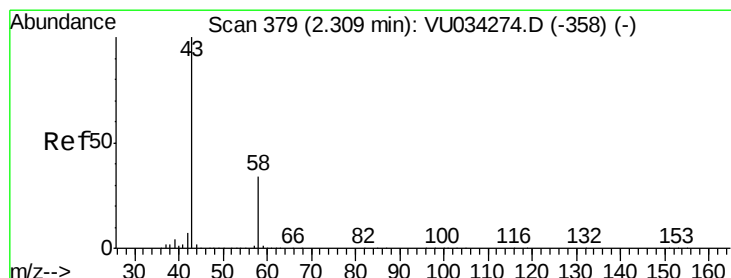
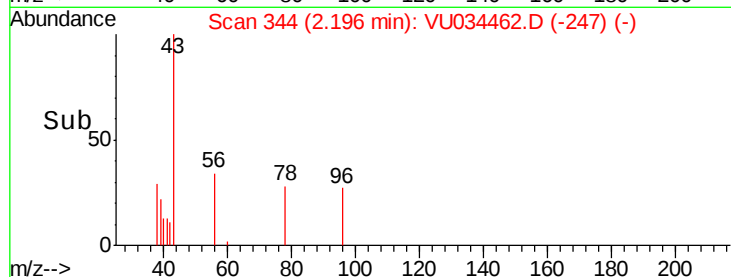
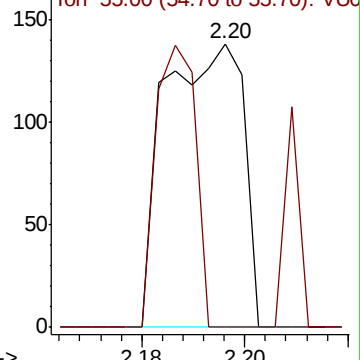
Ion Ratio Lower Upper

56 100

55 50.7 57.4 86.2#



Abundance Ion 56.00 (55.70 to 56.70): VU034462.D (-247) (-)



#16

Acetone

Concen: 8.366 ug/l

RT: 2.32 min Scan# 381

Delta R.T. 0.01 min

Lab File: VU034462.D

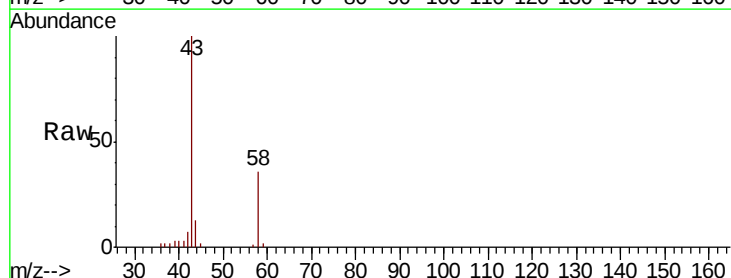
Acq: 10 Sep 2019 19:26

Tgt Ion: 43 Resp: 14802

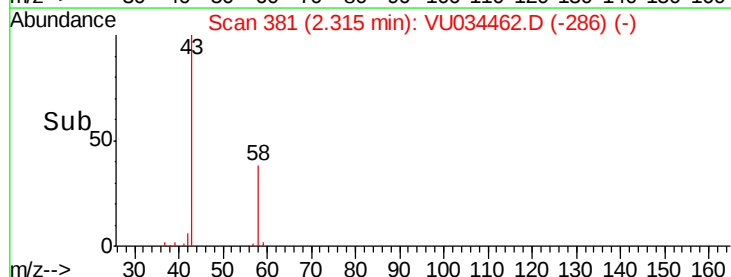
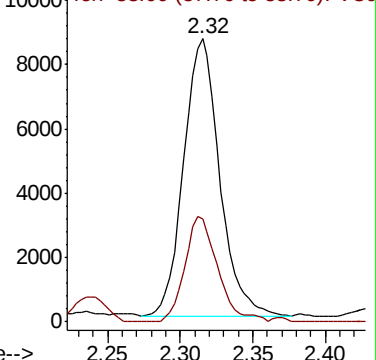
Ion Ratio Lower Upper

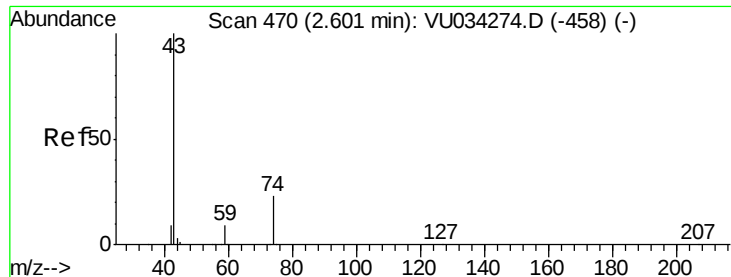
43 100

58 37.2 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU034462.D (-286) (-)

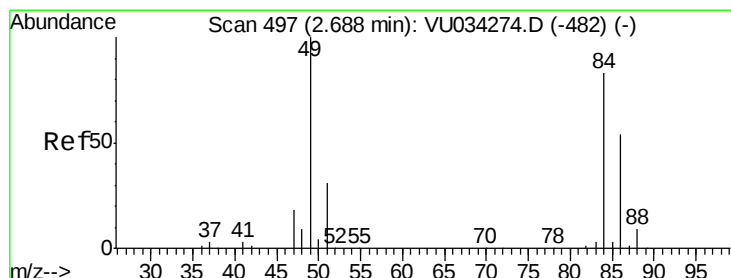
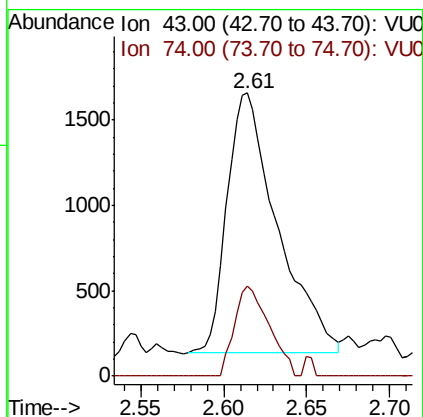
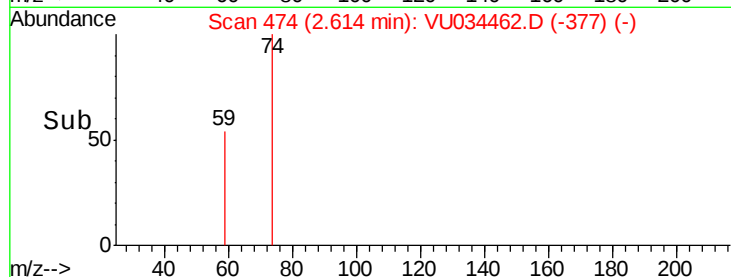
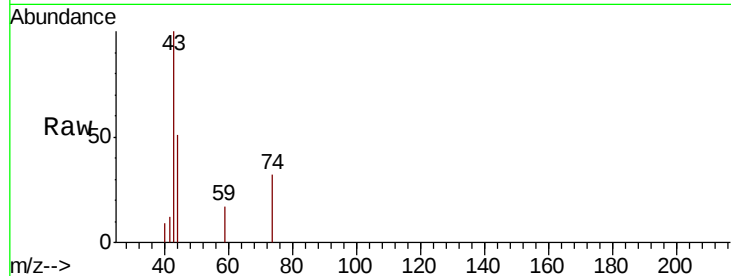




#18
Methyl Acetate
Concen: 0.747 ug/l
RT: 2.61 min Scan# 474
Delta R.T. 0.01 min
Lab File: VU034462.D
Acq: 10 Sep 2019 19:26

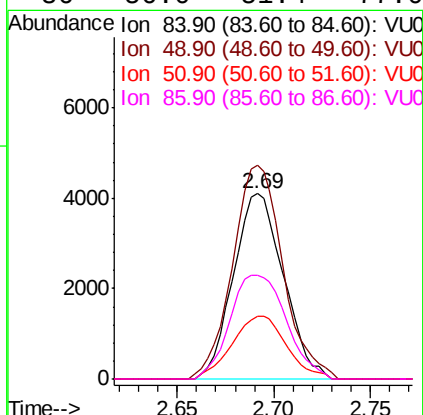
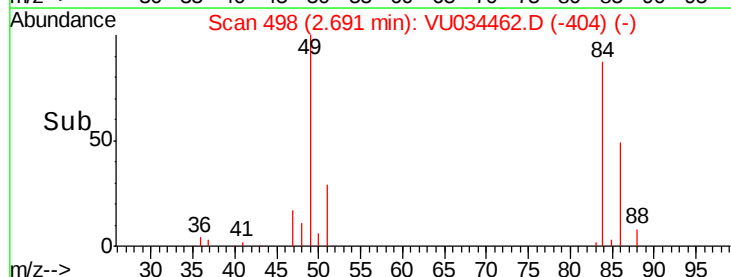
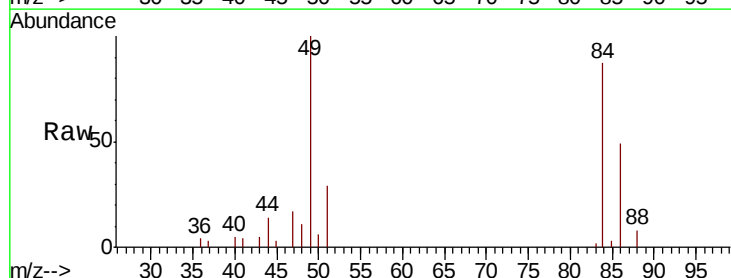
Instrument :
MSVOA_U
ClientSampleId :
T12-F1-(2.7)

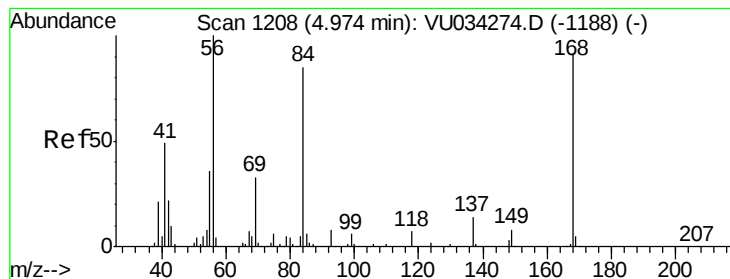
Tgt Ion: 43 Resp: 3214
Ion Ratio Lower Upper
43 100
74 24.0 18.9 28.3



#20
Methylene Chloride
Concen: 2.165 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.00 min
Lab File: VU034462.D
Acq: 10 Sep 2019 19:26

Tgt Ion: 84 Resp: 7381
Ion Ratio Lower Upper
84 100
49 115.2 96.0 144.0
51 33.7 30.0 45.0
86 56.0 51.4 77.0





#31

Cyclohexane

Concen: 0.994 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034462.D

Acq: 10 Sep 2019 19:26

Instrument :

MSVOA_U

ClientSampleId :

T12-F1-(2.7)

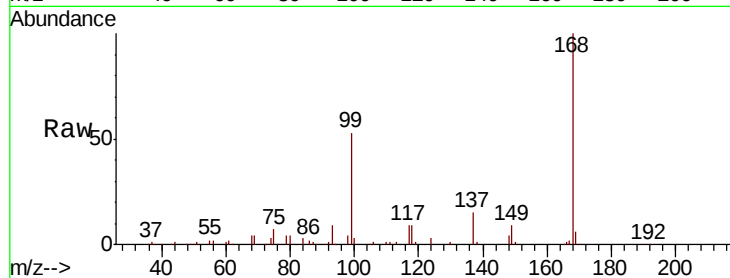
Tgt Ion: 56 Resp: 3979

Ion Ratio Lower Upper

56 100

69 185.0 26.7 40.1#

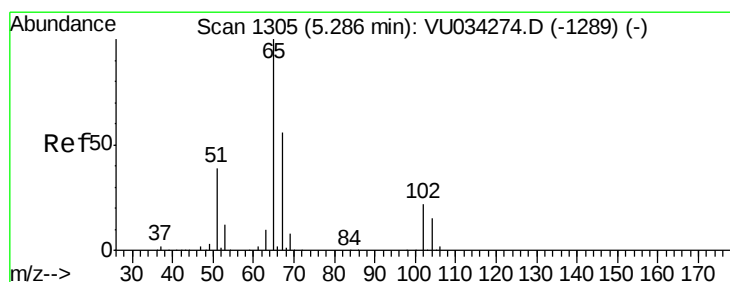
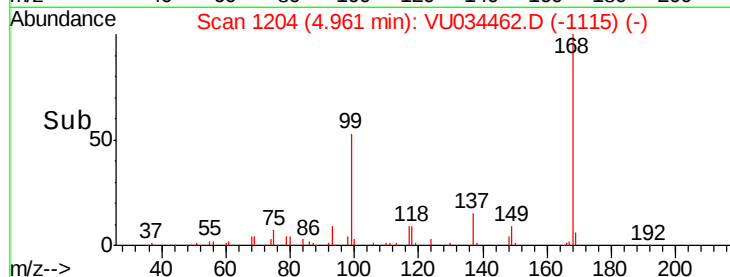
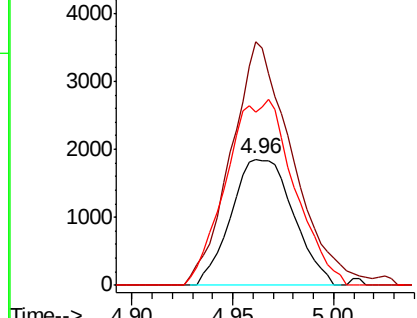
84 131.0 68.2 102.4#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0



#33

1,2-Dichloroethane-d4

Concen: 62.944 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034462.D

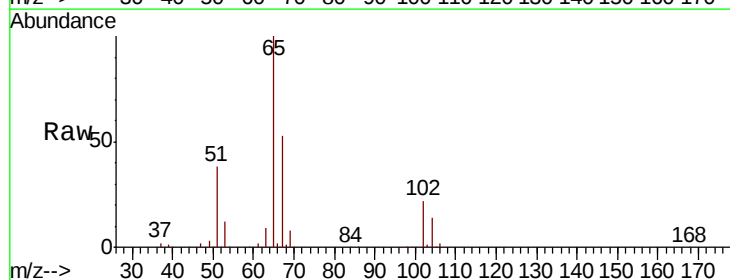
Acq: 10 Sep 2019 19:26

Tgt Ion: 65 Resp: 215208

Ion Ratio Lower Upper

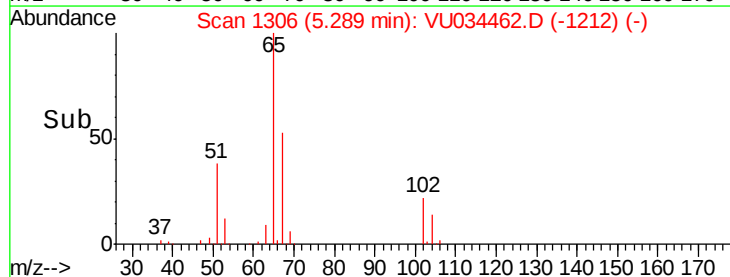
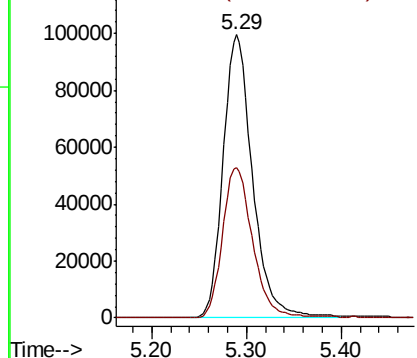
65 100

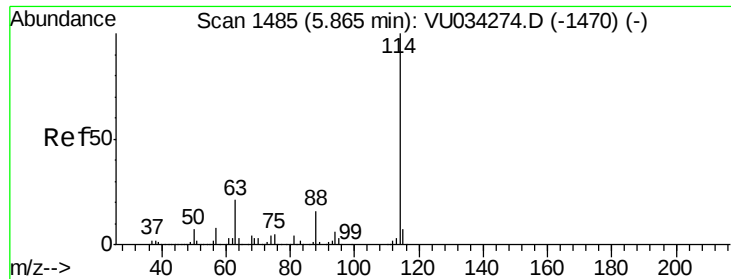
67 54.3 0.0 112.4



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0

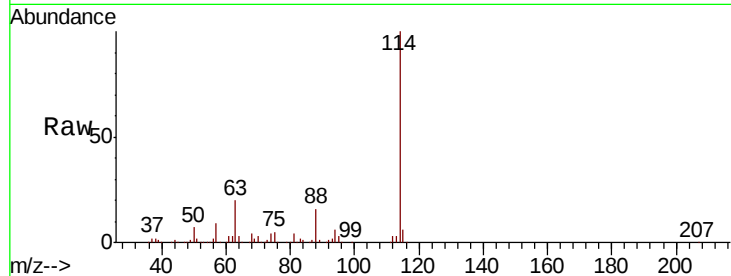




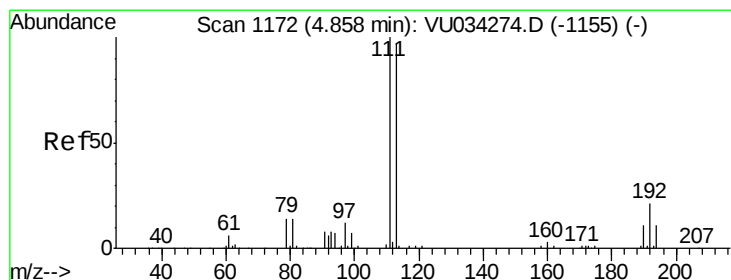
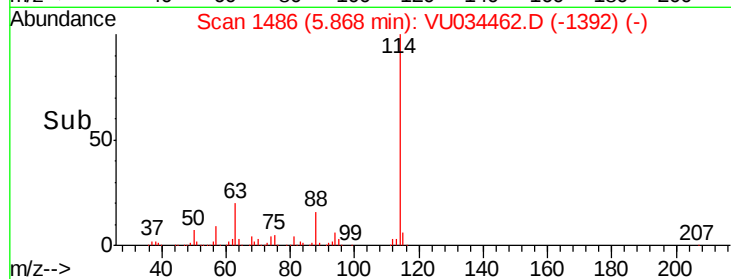
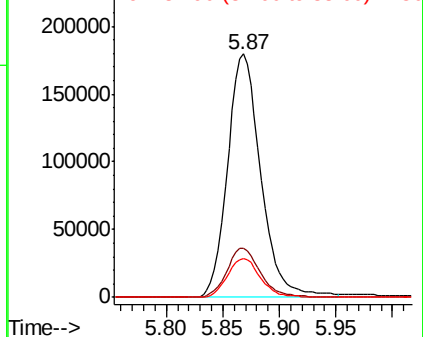
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034462.D
 Acq: 10 Sep 2019 19:26

Instrument :
 MSVOA_U
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 T12-F1-(2.7)

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	42.4
88	15.9	0.0	32.4

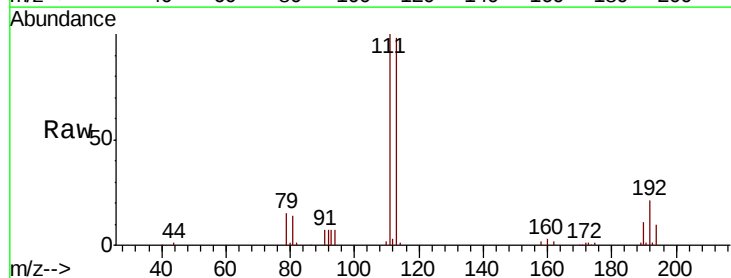


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

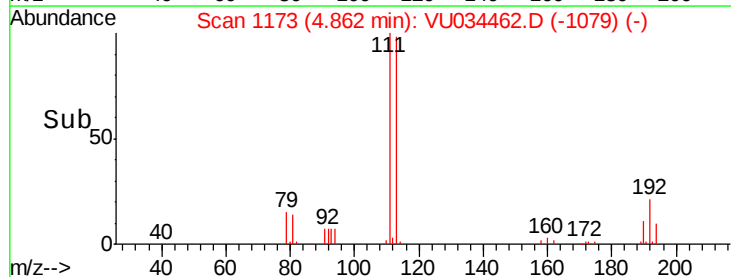
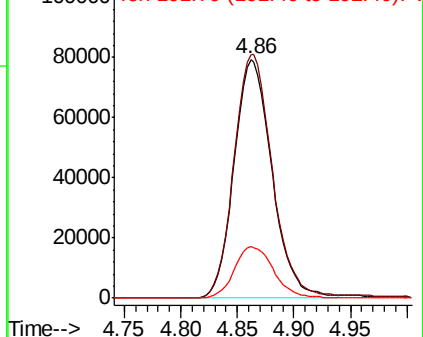


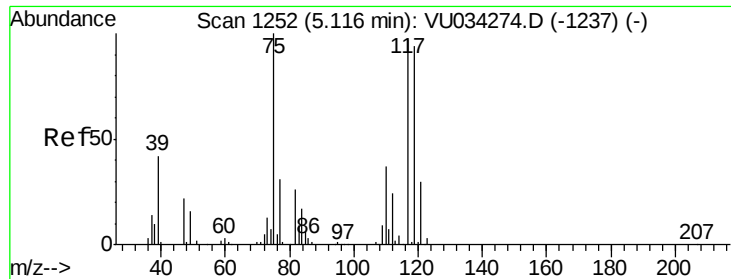
#35
 Dibromofluoromethane
 Concen: 54.147 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034462.D
 Acq: 10 Sep 2019 19:26

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.3	81.5	122.3
192	22.3	17.8	26.8



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.929 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.15 min

Lab File: VU034462.D

Acq: 10 Sep 2019 19:26

Instrument :

MSVOA_U

ClientSampled :

T12-F1-(2.7)

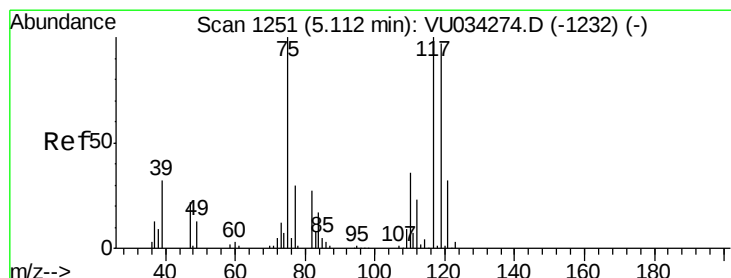
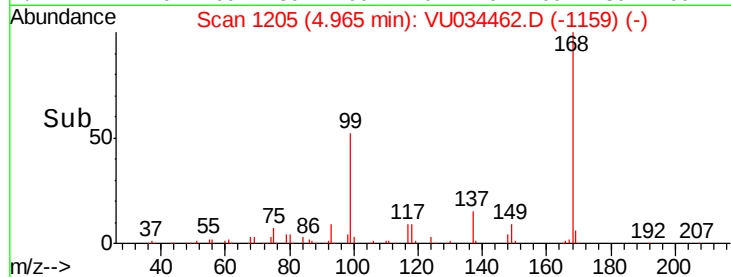
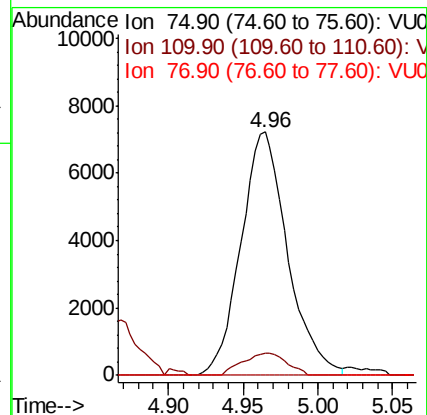
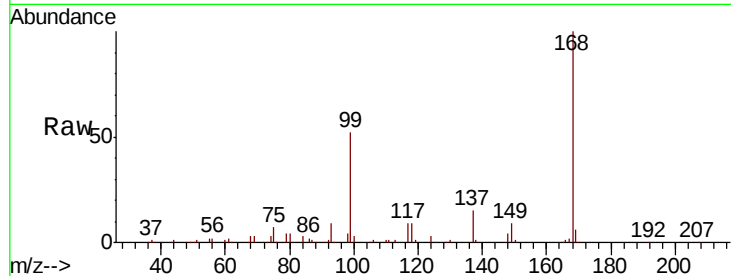
Tgt Ion: 75 Resp: 15669

Ion Ratio Lower Upper

75 100

110 8.5 18.3 54.9#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 4.832 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034462.D

Acq: 10 Sep 2019 19:26

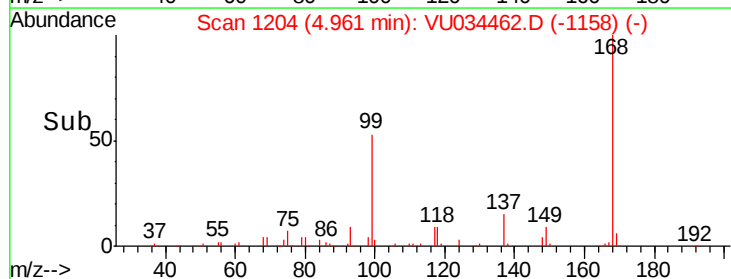
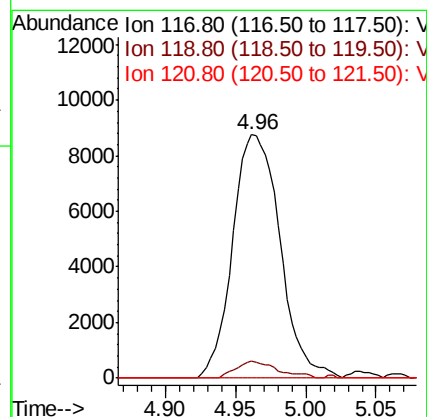
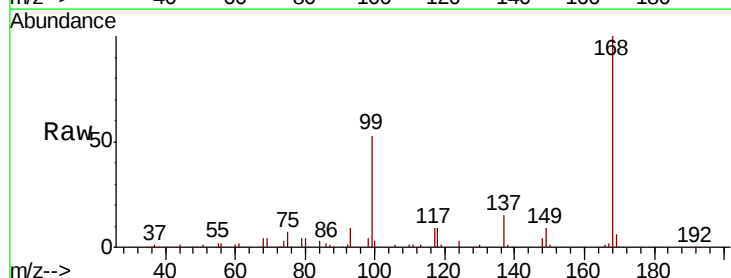
Tgt Ion: 117 Resp: 20574

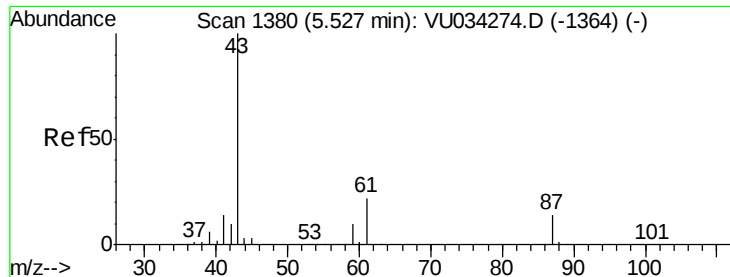
Ion Ratio Lower Upper

117 100

119 6.8 77.8 116.6#

121 0.0 25.2 37.8#





#43

Isopropyl Acetate

Concen: 6.967 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034462.D

Acq: 10 Sep 2019 19:26

Instrument :

MSVOA_U

ClientSampleId :

T12-F1-(2.7)

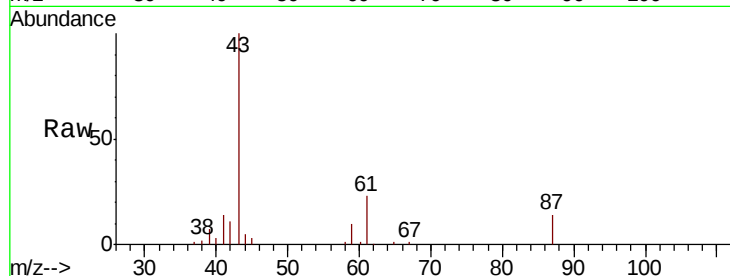
Tgt Ion: 43 Resp: 51243

Ion Ratio Lower Upper

43 100

61 22.0 17.1 25.7

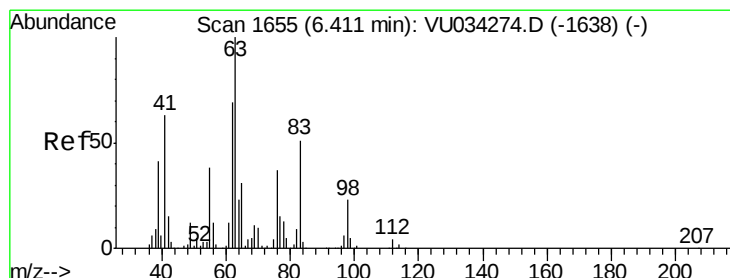
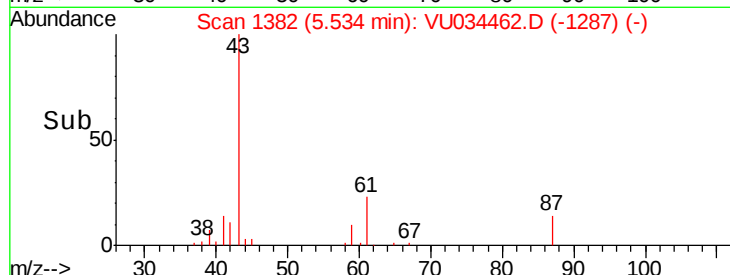
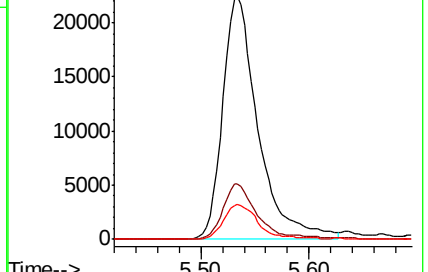
87 14.1 11.1 16.7



Abundance Ion 43.00 (42.70 to 43.70): VU034462.D (-1287) (-)

Ion 61.00 (60.70 to 61.70): VU034462.D (-1287) (-)

Ion 87.00 (86.70 to 87.70): VU034462.D (-1287) (-)



#45

1,2-Dichloropropane

Concen: 0.276 ug/l

RT: 6.68 min Scan# 1740

Delta R.T. 0.27 min

Lab File: VU034462.D

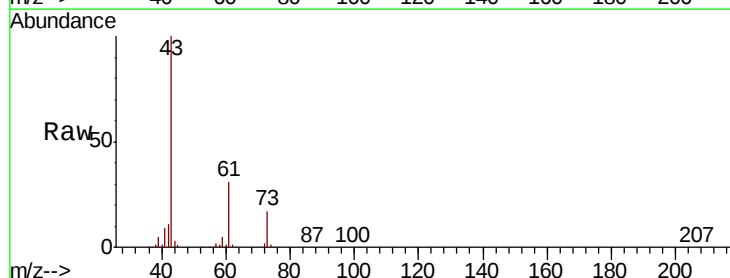
Acq: 10 Sep 2019 19:26

Tgt Ion: 63 Resp: 1040

Ion Ratio Lower Upper

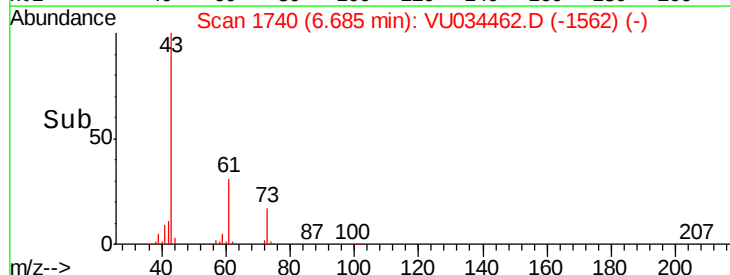
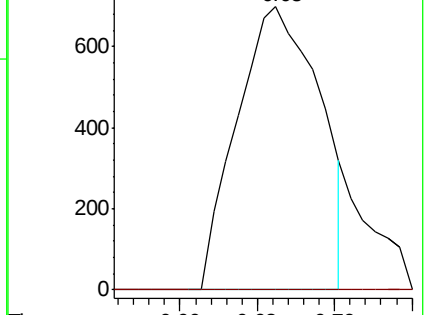
63 100

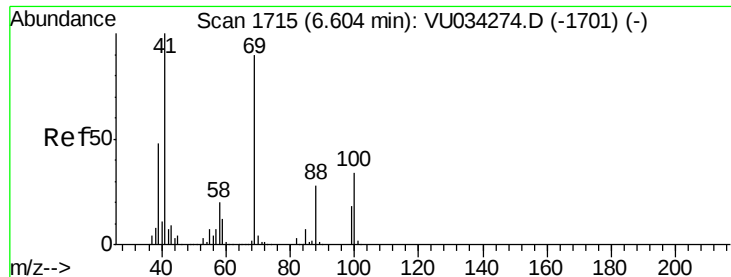
65 0.0 24.6 37.0#



Abundance Ion 62.90 (62.60 to 63.60): VU034462.D (-1562) (-)

Ion 64.90 (64.60 to 65.60): VU034462.D (-1562) (-)





#48

Methyl methacrylate

Concen: 22.082 ug/l

RT: 6.68 min Scan# 1740

Delta R.T. 0.08 min

Lab File: VU034462.D

Acq: 10 Sep 2019 19:26

Instrument :

MSVOA_U

ClientSampleId :

T12-F1-(2.7)

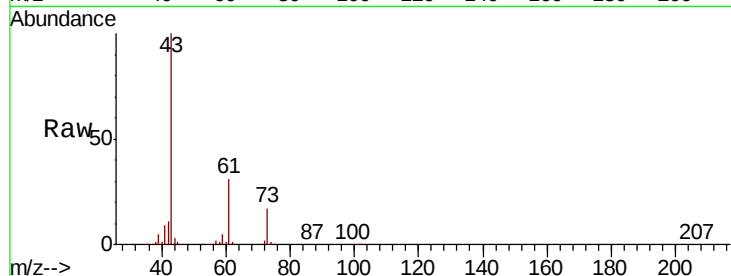
Tgt Ion: 41 Resp: 77138

Ion Ratio Lower Upper

41 100

69 0.0 72.8 109.2#

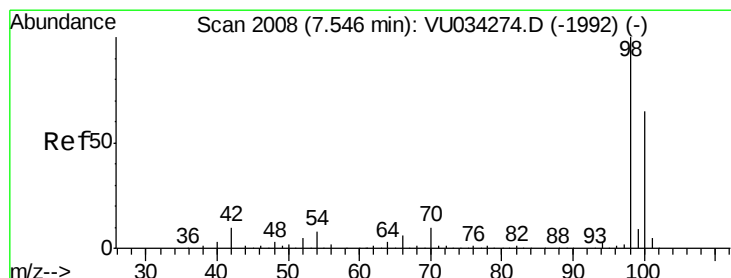
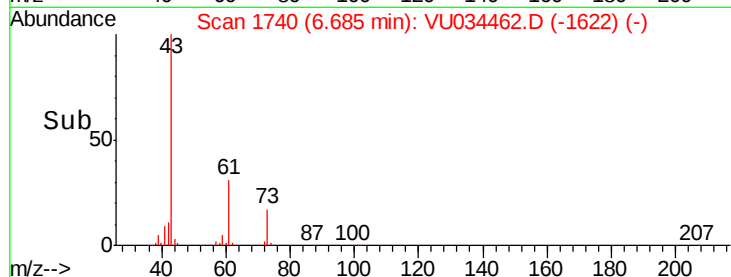
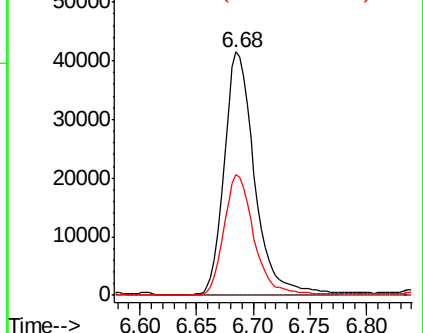
39 49.5 38.6 58.0



Abundance Ion 41.00 (40.70 to 41.70): VU034462.D (-1622) (-)

Ion 69.00 (68.70 to 69.70): VU034462.D (-1622) (-)

Ion 39.00 (38.70 to 39.70): VU034462.D (-1622) (-)



#50

Toluene-d8

Concen: 51.069 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034462.D

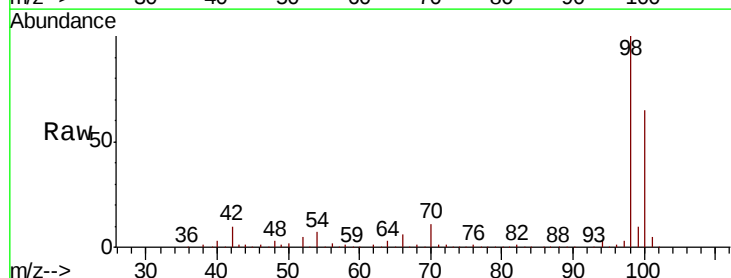
Acq: 10 Sep 2019 19:26

Tgt Ion: 98 Resp: 656442

Ion Ratio Lower Upper

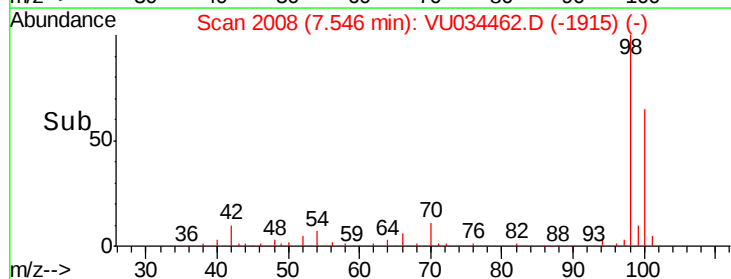
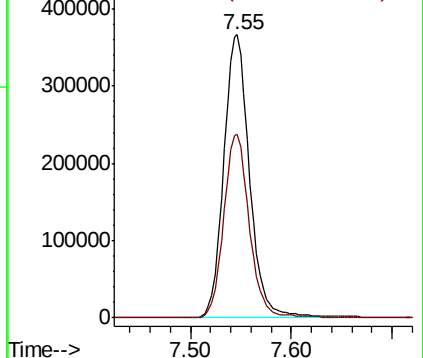
98 100

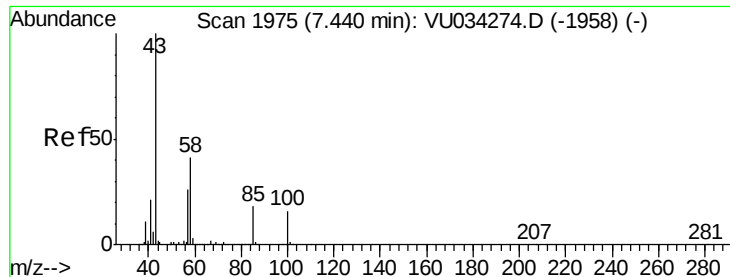
100 64.4 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VU034462.D (-1915) (-)

Ion 100.00 (99.70 to 100.70): VU034462.D (-1915) (-)

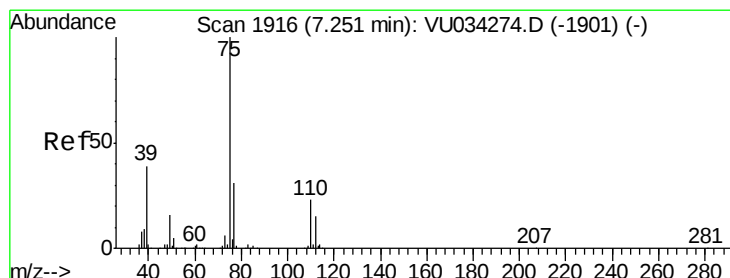
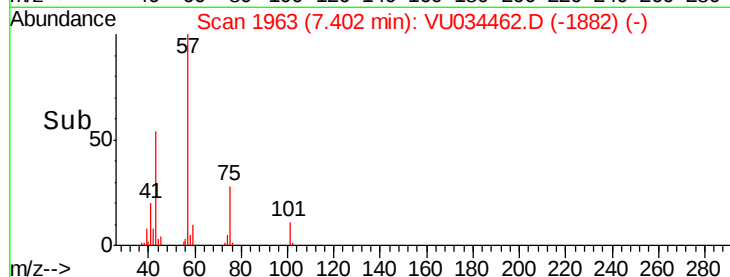
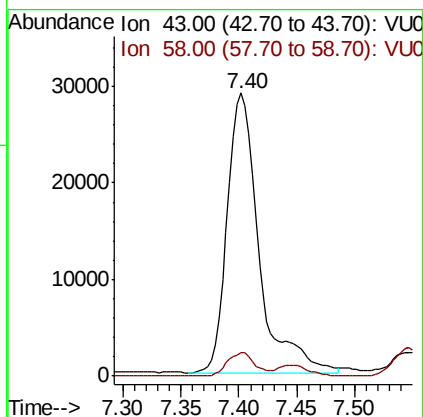
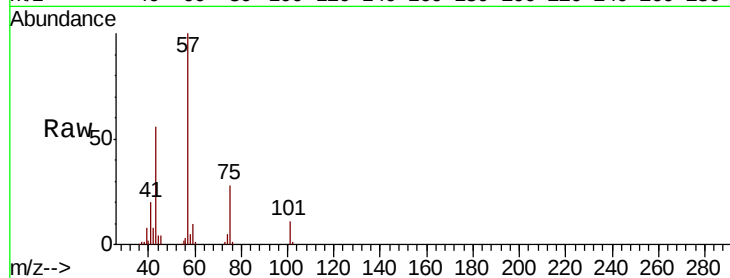




#51
 4-Methyl-2-Pentanone
 Concen: 10.862 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. -0.04 min
 Lab File: VU034462.D
 Acq: 10 Sep 2019 19:26

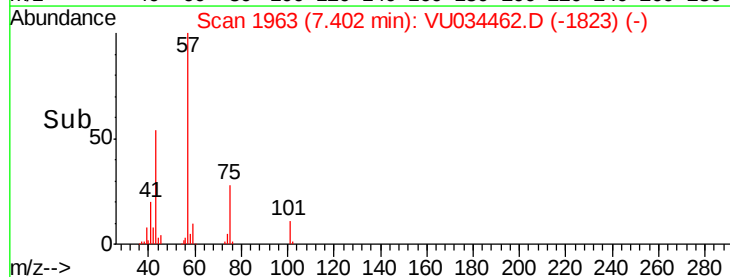
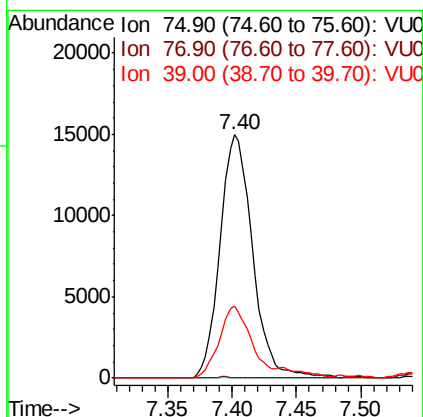
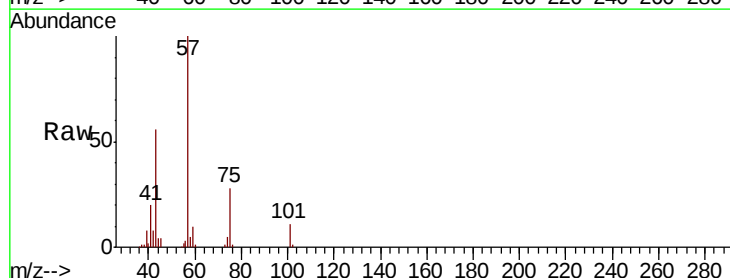
Instrument :
 MSVOA_U
 ClientSampleId :
 T12-F1-(2.7)

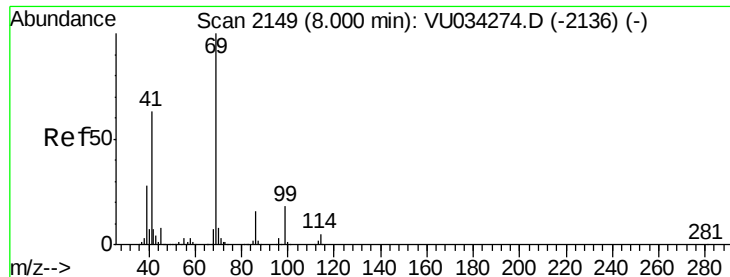
Tgt Ion: 43 Resp: 55297
 Ion Ratio Lower Upper
 43 100
 58 7.4 33.0 49.4#



#54
 cis-1,3-Dichloropropene
 Concen: 4.752 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034462.D
 Acq: 10 Sep 2019 19:26

Tgt Ion: 75 Resp: 26278
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.1 37.7#
 39 29.5 31.2 46.8#





#56

Ethyl methacrylate

Concen: 3.105 ug/l

RT: 7.90 min Scan# 2119

Delta R.T. -0.10 min

Lab File: VU034462.D

Acq: 10 Sep 2019 19:26

Instrument :

MSVOA_U

ClientSampleId :

T12-F1-(2.7)

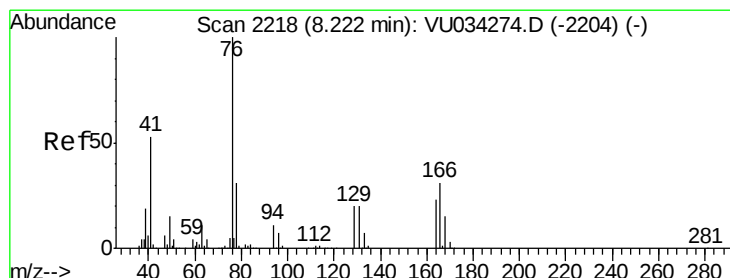
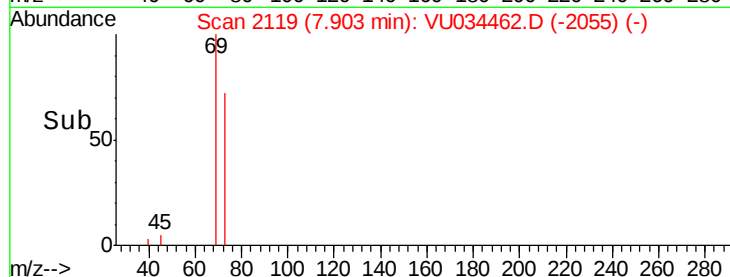
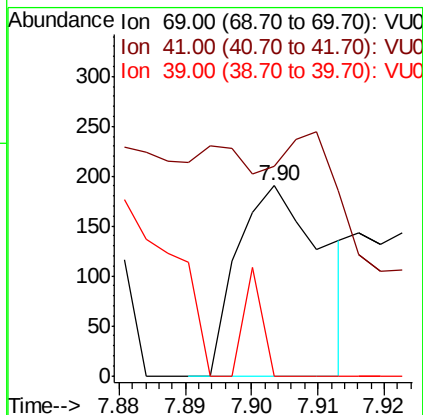
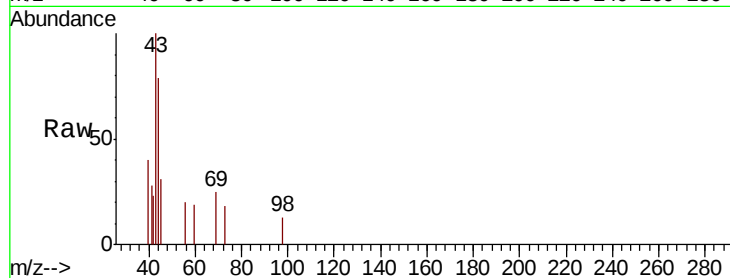
Tgt Ion: 69 Resp: 171

Ion Ratio Lower Upper

69 100

41 0.0 49.5 74.3#

39 0.0 22.5 33.7#



#57

1,3-Dichloropropane

Concen: 0.732 ug/l

RT: 8.40 min Scan# 2272

Delta R.T. 0.17 min

Lab File: VU034462.D

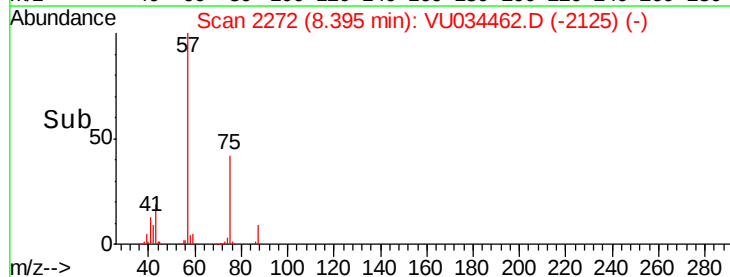
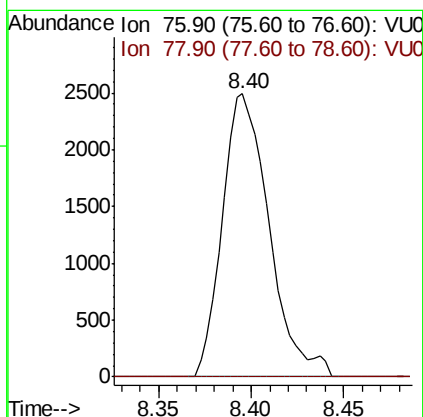
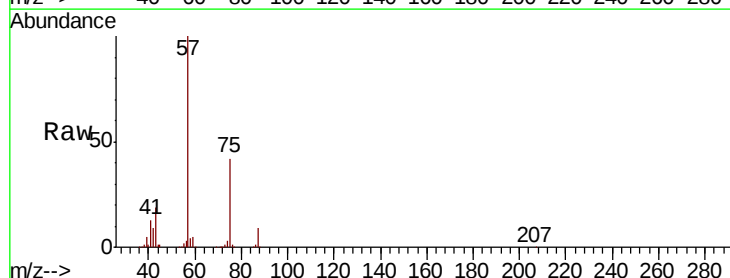
Acq: 10 Sep 2019 19:26

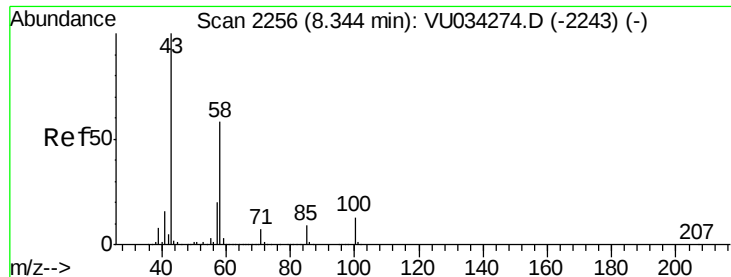
Tgt Ion: 76 Resp: 4369

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#

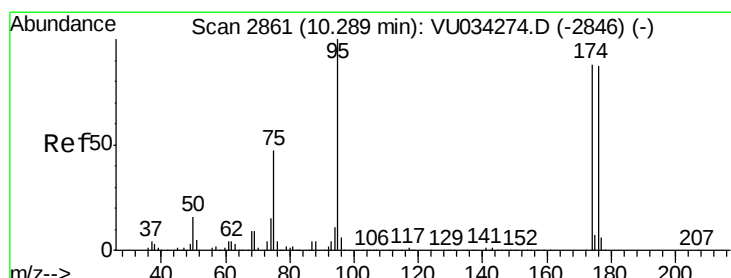
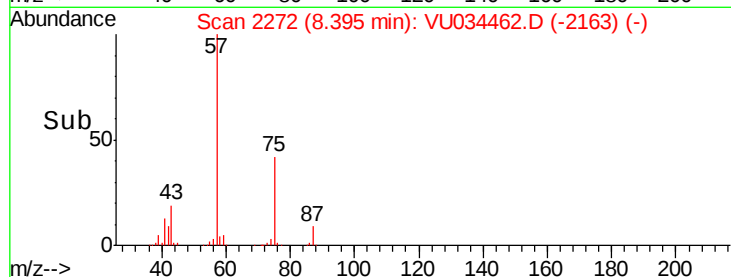
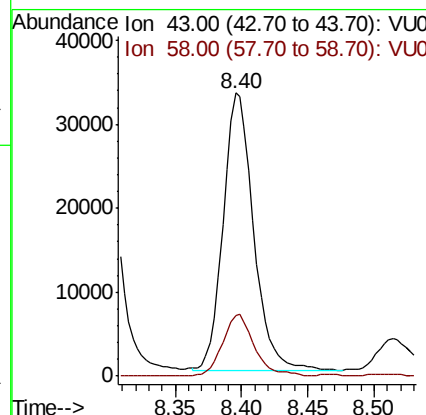
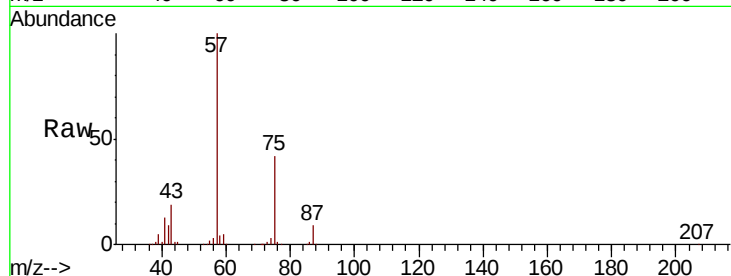




#59
2-Hexanone
Concen: 13.900 ug/l
RT: 8.40 min Scan# 2272
Delta R.T. 0.05 min
Lab File: VU034462.D
Acq: 10 Sep 2019 19:26

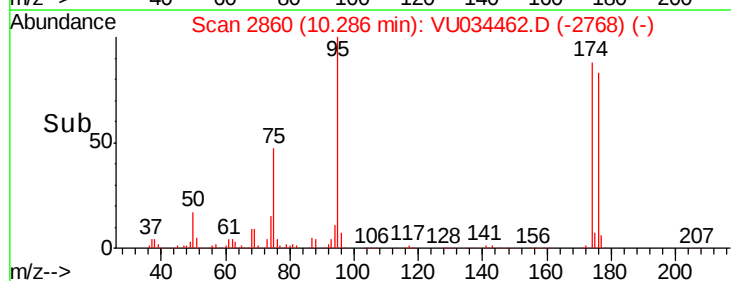
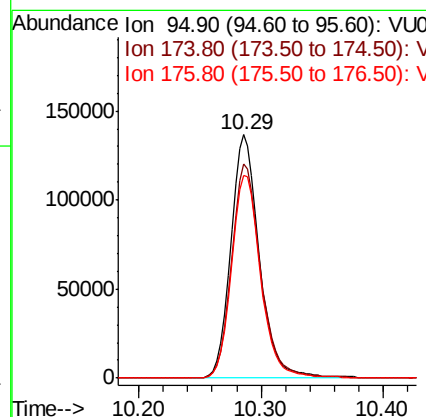
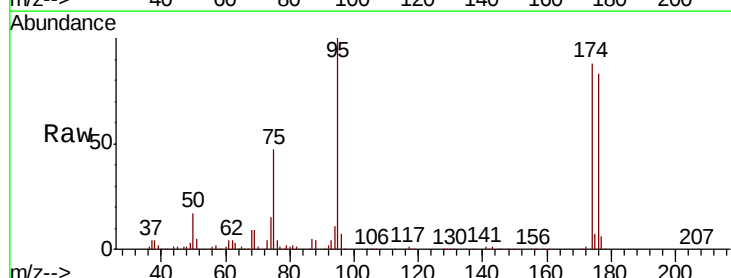
Instrument :
MSVOA_U
ClientSampleId :
T12-F1-(2.7)

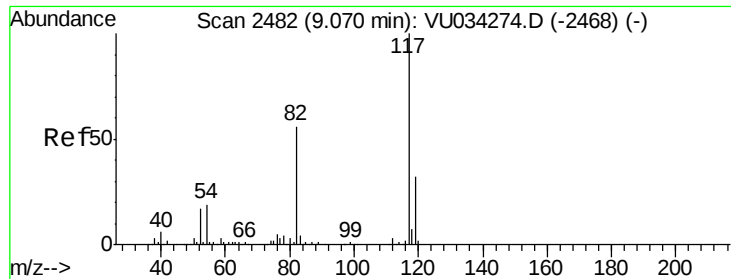
Tgt Ion: 43 Resp: 52865
Ion Ratio Lower Upper
43 100
58 23.2 28.8 86.5#



#62
4-Bromofluorobenzene
Concen: 44.989 ug/l
RT: 10.29 min Scan# 2860
Delta R.T. -0.00 min
Lab File: VU034462.D
Acq: 10 Sep 2019 19:26

Tgt Ion: 95 Resp: 223273
Ion Ratio Lower Upper
95 100
174 90.7 0.0 175.2
176 85.4 0.0 168.0

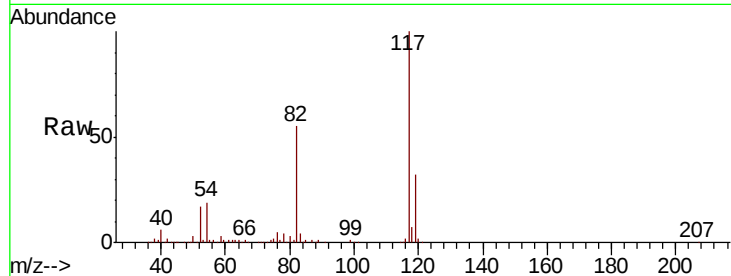




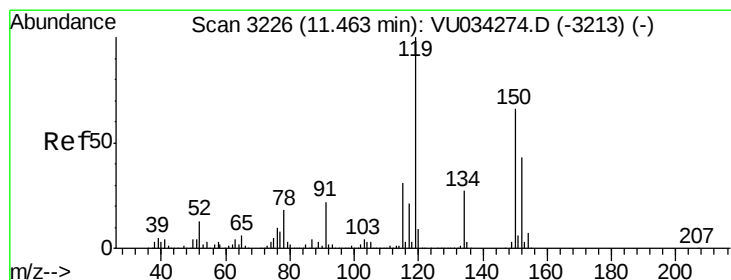
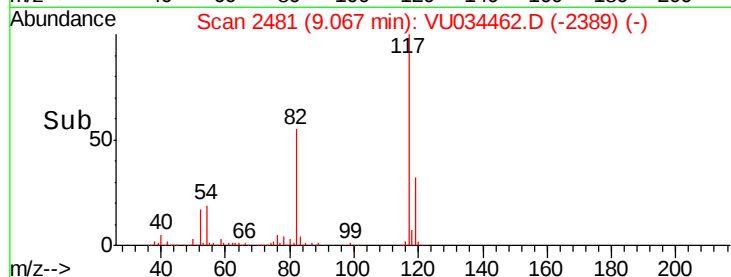
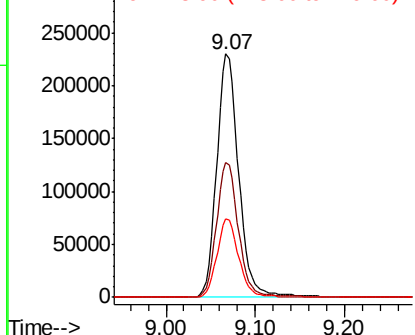
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2481
Delta R.T. -0.00 min
Lab File: VU034462.D
Acq: 10 Sep 2019 19:26

Instrument :
MSVOA_U
ClientSampleId :
T12-F1-(2.7)

Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.4	44.6	67.0
119	32.2	25.9	38.9

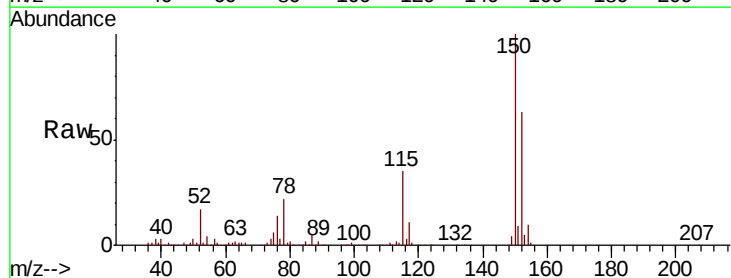


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

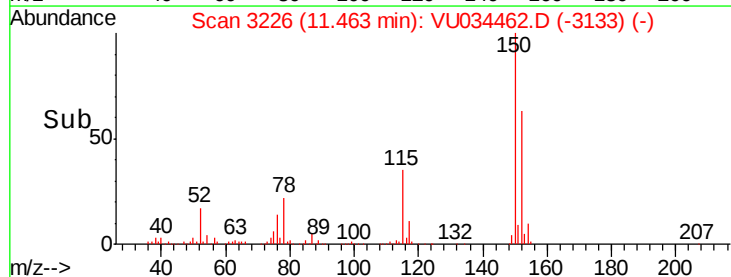
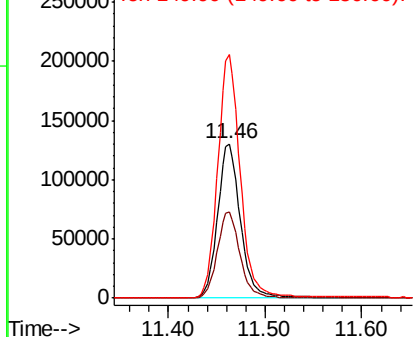


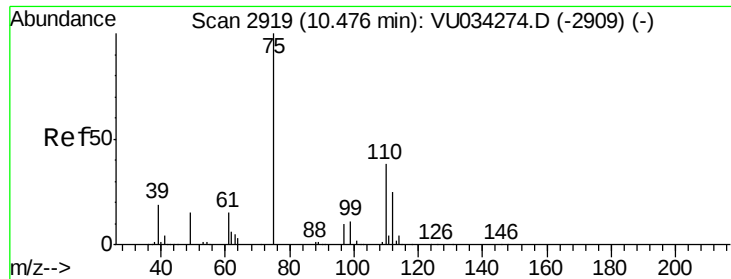
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. 0.00 min
Lab File: VU034462.D
Acq: 10 Sep 2019 19:26

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.5	39.1	117.3
150	156.5	0.0	345.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.853 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034462.D

Acq: 10 Sep 2019 19:26

Instrument :

MSVOA_U

ClientSampleId :

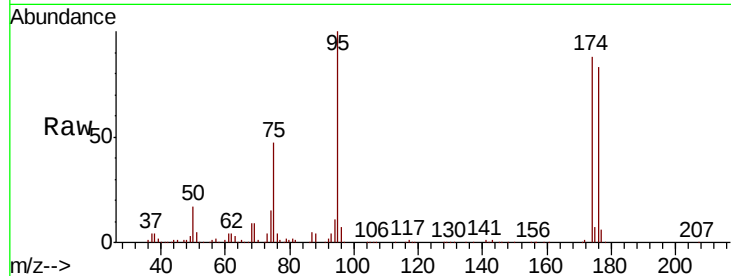
T12-F1-(2.7)

Tgt Ion: 75 Resp: 106648

Ion Ratio Lower Upper

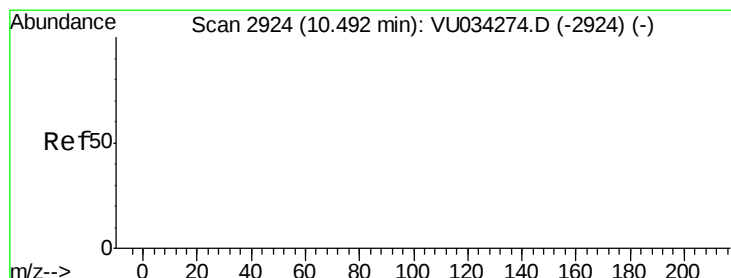
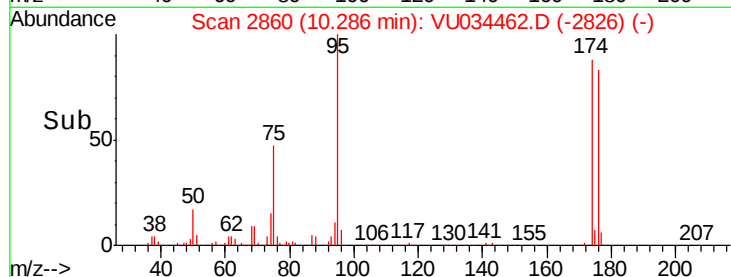
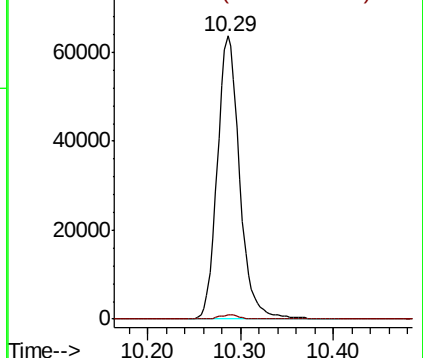
75 100

77 1.4 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0



#81

trans-1,4-Dichloro-2-butene

Concen: 76.852 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.21 min

Lab File: VU034462.D

Acq: 10 Sep 2019 19:26

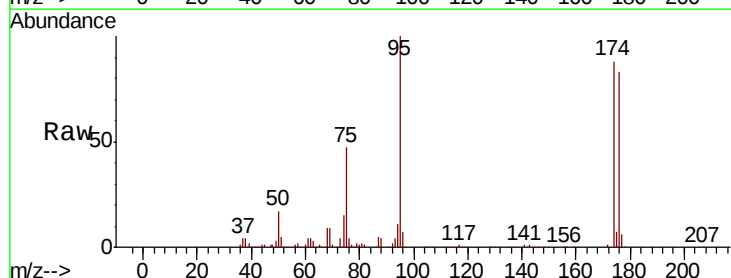
Tgt Ion: 75 Resp: 106648

Ion Ratio Lower Upper

75 100

53 0.2 0.0 0.0#

89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

